

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(piston or plunger) and ((sensor or sensing or sense or sensed) with cylinder with (seal or sealed or sealing or sealant))	IBM_TDB	OR	ON	2005/06/22 18:21
L2	45	(piston or plunger) same ((sensor or sensing or sense or sensed) with cylinder with (seal or sealed or sealing or sealant))	US-PGPUB	OR	ON	2005/06/22 19:31
L3	21	(piston or plunger) and ((sensor or sensing or sense or sensed) with cylinder with (seal or sealed or sealing or sealant))	EPO	OR	ON	2005/06/22 18:21
L4	29	(piston or plunger) and ((sensor or sensing or sense or sensed) with cylinder with (seal or sealed or sealing or sealant))	JPO	OR	ON	2005/06/22 18:21
L5	85	(piston or plunger) and ((sensor or sensing or sense or sensed) with cylinder with (seal or sealed or sealing or sealant))	DERWENT	OR	ON	2005/06/22 18:24
L6	118	(piston or plunger) and ((sensor or sensing or sense or sensed) with cylinder with (seal or sealed or sealing or sealant))	USOCR	OR	ON	2005/06/22 18:21
L7	82	(piston or plunger) with ((sensor or sensing or sense or sensed) with cylinder with (seal or sealed or sealing or sealant))	USOCR	OR	ON	2005/06/22 18:21
L8	276	(piston or plunger) same ((sensor or sensing or sense or sensed) with cylinder with (seal or sealed or sealing or sealant))	USPAT	OR	ON	2005/06/22 18:22
L9	1	us-20040083831-\$.did.	DERWENT	OR	ON	2005/06/22 18:24
L10	1	2004-378485.NRAN.	DERWENT	OR	ON	2005/06/22 18:34
L11	6	2 and ((73/7 or 73/865.9 or 73/168 or 73/116 or 73/119R or 324/207.24 or 92/5r).ccls. or (g01n003/56 or g01b007/14 or g01b021/16 or g01b007/00 or g01b021/00 or g01d007/00 or g01m015/00 or g01m013/00 or g01m019/00 or f02d035/00 or fo4b051/00).ipc.)	US-PGPUB	OR	ON	2005/06/22 20:07

L12	1	3 and ((73/7 or 73/865.9 or 73/168 or 73/116 or 73/119R or 324/207.24 or 92/5r).ccls. or (g01n003/56 or g01b007/14 or g01b021/16 or g01b007/00 or g01b021/00 or g01d007/00 or g01m015/00 or g01m013/00 or g01m019/00 or f02d035/00 or fo4b051/00).ipc.)	EPO	OR	ON	2005/06/22 18:48
L13	2	4 and ((73/7 or 73/865.9 or 73/168 or 73/116 or 73/119R or 324/207.24 or 92/5r).ccls. or (g01n003/56 or g01b007/14 or g01b021/16 or g01b007/00 or g01b021/00 or g01d007/00 or g01m015/00 or g01m013/00 or g01m019/00 or f02d035/00 or fo4b051/00).ipc.)	JPO	OR	ON	2005/06/22 18:52
L14	8	5 and ((73/7 or 73/865.9 or 73/168 or 73/116 or 73/119R or 324/207.24 or 92/5r).ccls. or (g01n003/56 or g01b007/14 or g01b021/16 or g01b007/00 or g01b021/00 or g01d007/00 or g01m015/00 or g01m013/00 or g01m019/00 or f02d035/00 or fo4b051/00).ipc.)	DERWENT	OR	ON	2005/06/22 18:56
L15	2	6 and ((73/7 or 73/865.9 or 73/168 or 73/116 or 73/119R or 324/207.24 or 92/5r).ccls. or (g01n003/56 or g01b007/14 or g01b021/16 or g01b007/00 or g01b021/00 or g01d007/00 or g01m015/00 or g01m013/00 or g01m019/00 or f02d035/00 or fo4b051/00).ipc.)	USOCR	OR	ON	2005/06/22 18:58
L16	27	8 and ((73/7 or 73/865.9 or 73/168 or 73/116 or 73/119R or 324/207.24 or 92/5r).ccls. or (g01n003/56 or g01b007/14 or g01b021/16 or g01b007/00 or g01b021/00 or g01d007/00 or g01m015/00 or g01m013/00 or g01m019/00 or f02d035/00 or fo4b051/00).ipc.)	USPAT	OR	ON	2005/06/22 19:25
L17	3	("4143319" or "4987774" or "6318147").pn.	USPAT	OR	ON	2005/06/22 19:28
L18	1	jp-62151703-\$.did.	JPO; DERWENT	OR	ON	2005/06/22 19:30
L19	1	de-2543078-\$.did.	EPO; DERWENT	OR	ON	2005/06/22 19:30

L20	28	((piston or plunger) or 92/5r.ccls.) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.)	US-PGPUB	OR	ON	2005/06/22 19:43
L21	7	((((piston or plunger) same (sealed or seal or sealing or sealant)) or (92/5r.ccls. and (seal or sealed or sealing or sealant))) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.)	US-PGPUB	OR	ON	2005/06/22 19:57
L22	32	((piston or plunger) or 92/5r.ccls.) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.)	EPO	OR	ON	2005/06/22 19:44
L23	1	((piston or plunger) or 92/5r.ccls.) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.) and (sealed or seal or sealing or sealant)	EPO	OR	ON	2005/06/22 19:44
L24	0	((piston or plunger) or 92/5r.ccls.) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.) and (sealed or seal or sealing or sealant)	JPO	OR	ON	2005/06/22 19:45
L25	14	((piston or plunger) or 92/5r.ccls.) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.)	JPO	OR	ON	2005/06/22 19:44
L26	11	((piston or plunger) or 92/5r.ccls.) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.) and (sealed or seal or sealing or sealant)	DERWENT	OR	ON	2005/06/22 19:50
L27	1	1993-296208.NRAN.	DERWENT	OR	ON	2005/06/22 19:47
L28	0	((piston or plunger) or 92/5r.ccls.) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.) and (sealed or seal or sealing or sealant)	USOCR	OR	ON	2005/06/22 19:50
L29	44	((((piston or plunger) same (sealed or seal or sealing or sealant)) or (92/5r.ccls. and (seal or sealed or sealing or sealant))) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.)	USPAT	OR	ON	2005/06/22 19:51

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	17	((((piston or plunger) same (cylinder with (sealed or seal or sealing or sealant))) or (92/5r.ccls. and (cylinder with (seal or sealed or sealing or sealant)))) and 324/207.24.ccls.	USPAT	OR	ON	2005/06/23 13:04
S30	25	((((piston or plunger) same (cylinder with (sealed or seal or sealing or sealant))) or (92/5r.ccls. and (cylinder with (seal or sealed or sealing or sealant)))) and ((g01b021/16 or g01b007/14).ipc. or 324/207.24.ccls.)	USPAT	OR	ON	2005/06/22 19:58
S31	0	((((piston or plunger) same (sealed or seal or sealing or sealant)) or (92/5r.ccls. and (seal or sealed or sealing or sealant))) and 324/207.26.ccls.	US-PGPUB	OR	ON	2005/06/22 19:57
S32	0	((((piston or plunger) same (sealed or seal or sealing or sealant)) or (92/5r.ccls. and (seal or sealed or sealing or sealant))) and 324/207.26.ccls.	EPO	OR	ON	2005/06/22 19:57
S33	0	((((piston or plunger) same (sealed or seal or sealing or sealant)) or (92/5r.ccls. and (seal or sealed or sealing or sealant))) and 324/207.26.ccls.	JPO	OR	ON	2005/06/22 19:57
S34	0	((((piston or plunger) same (sealed or seal or sealing or sealant)) or (92/5r.ccls. and (seal or sealed or sealing or sealant))) and 324/207.26.ccls.	USOCR	OR	ON	2005/06/22 19:58
S35	15	((((piston or plunger) same (cylinder with (sealed or seal or sealing or sealant))) or (92/5r.ccls. and (cylinder with (seal or sealed or sealing or sealant)))) and ((g01b021/16 or g01b007/14).ipc. or 324/207.26.ccls.)	USPAT	OR	ON	2005/06/23 13:03
S36	0	S2 and 324/207.26.ccls.	US-PGPUB	OR	ON	2005/06/22 20:08
S37	0	S3 and 324/207.26.ccls.	EPO	OR	ON	2005/06/22 20:09
S38	0	S4 and 324/207.26.ccls.	JPO	OR	ON	2005/06/22 20:10
S39	0	S6 and 324/207.26.ccls.	USOCR	OR	ON	2005/06/22 20:11
S40	0	S8 and 324/207.26.ccls.	USPAT	OR	ON	2005/06/23 13:02

DERWENT-ACC-NO: 1977-C7836Y

DERWENT-WEEK: 197714

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TITLE: Inductive transducer for
measuring small mechanical
offsets - checks internal
combustion engine piston ring
conditions in situ

PATENT-ASSIGNEE: VIBRO-METER SA[VIBRN]

PRIORITY-DATA: 1975DE-2543078 (September 26, 1975)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE
LANGUAGE		MAIN-IPC
<u>DE 2543078 A</u>		March 31, 1977
N/A	000	N/A
<u>DE 2543078 B</u>		March 29, 1979
N/A	000	N/A

INT-CL (IPC): G01B007/14, G01D005/20

ABSTRACTED-PUB-NO: DE 2543078A

BASIC-ABSTRACT:

An inductive transducer is for checking the magnitude of small mechanical offsets between metal parts, such as the offsets between the rings and the cylinder walls of an internal combustion engine.

The condition of such piston rings can be checked in situ. by such a transducer without the need for engine down time.

The transducer consists of a metallic core (2) surrounded by a suitable coil (3) with terminal wires (5), mounted in an outer cylindrical shell (1) and provided with suitable pieces (4) of non magnetic material. Various forms of construction are used, and the transducer is typically contained in an outer chassis (11) which can be screwed through a cylinder block (27) with a seal (34) against the cooling water in the block, near the piston rings (29).

DERWENT-CLASS: S02